

10/552102
JC12 Rec'd PCT TUE 03 OCT 2005

PTO/SB/08A (08-03)

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Application Number Not Yet Accorded Filing Date Not Yet Accorded First Named Inventor Mark C. Hanna Art Unit Not Yet Accorded Examiner Name Not Yet Accorded	
Sheet	1	of	2	Attorney Docket Number	NREL IR 01-14

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.*	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	1	US- 4,963,508	10/16/1990	Umeno et al.	
	2	US- 5,002,618	03/26/1991	Kanai et al.	
	3	US- 5,264,389	11/23/1993	Hamada et al.	
	4	US- 5,744,829	04/28/1998	Murasato et al.	
	5	US- 5,944,913	08/31/1999	Hou et al.	
	6	US- 5,959,307	09/28/1999	Nakamura et al.	
	7	US- 6,100,546	08/08/2000	Major et al.	
	8	US- 6,150,604	11/21/2000	Freundlich et al.	
	9	US- 6,232,138 B1	05/15/2001	Fitzgerald et al.	
	10	US- 6,281,426 B1	08/28/2001	Olson et al.	
	11	US- 6,300,558 B1	10/09/2001	Takamoto et al.	
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FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No.*	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear
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				Application Number	Not Yet Accorded
				Filing Date	Not Yet Accorded
				First Named Inventor	Mark C. Hanna
				Art Unit	Not Yet Accorded
				Examiner Name	Not Yet Accorded
Sheet	2	of	2	Attorney Docket Number	NREL IR 01-14

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.'	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	1	Yamada, A. et al., "Ion implantation of isoelectronic impurities into InP," Nuclear Instruments and Methods in Physics Research B80/81 (1993) 910-914, North Holland.	
	2	Xin, H.P. et al., "GaN0.011P0.989 red light-emitting diodes directly grown on GaP substrates," Applied Physics Letters, Vol. 77, Number 13, 25 Sept. 2000, 1946-1308.	
	3	Biwa, Goshi et al., "Metalorganic vapor-phase epitaxy of GaP _{1-x-y} As _y N _x quaternary alloys on GaP," Journal of Crystal growth 189/190 (1998) 485-489, Elsevier Science.	
	4	McConnell, R.D. and Kapur, V.K. "Photovoltaics for the 21st Century II," Energy Technology Division, Proceedings Vol. 2001-10, The Electrochrmical Society, Inc.	
	5	Hong, Y.G. and Tu, C.W., "Ga(In)NAs and (Al)GaNP: Potential Materials for Photovotlaics", Electrochemical Society Proceedings Volume 2001-10, 415-423.	
	6	Xin, H.P. et al., "Gas-source MBE growth of Ga(In)NP/GaP structures and their applications for red light-emitting diodes," Journal of Crystal Growth, 227-228 (2001) 558-561, Elsevier Science	

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